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REVIEWS AND GENERAL ARTICLES

ON

OILSEED CROPS RESEARCH

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A List of Publications, 1962-1969
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This list of publications represents 8 years of research work. It supersedes list issued as ARS 71-29, Suppl. 1-7. References are arranged chronologically except when they form a series of papers under the same general title or when the subject matter is closely related. All authors cited are members of the Northern Utilization Research and Development Division, Peoria, Ill.; exceptions are noted in footnotes or affiliations listed after author(s)' name.

Other lists of publications are available: Compositional Studies on Oilseeds, Oils, and Meals, ARS 71-39; Engineering Studies on Processing of Oils and Meals, ARS 71-40; Edible Soybean Oil and Related Studies, ARS 71-41; Edible Soybean Protein and Related Studies, ARS 71-42; Chemically Modified Oil Products for Industrial Uses, ARS 71-43; and Miscellaneous Studies Related to Soybean and Other Oilseed Crops, ARS 71-45.

Northern Utilization Research and Development Division
Agricultural Research Service
United States Department of Agriculture
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REVIEWS AND GENERAL ARTICLES ON OILSEED CROPS RESEARCH

1962-1969

Publications

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Edible Soybean Oil

- 1416 * OIL USES AND THEIR POTENTIAL
L. L. McKinney
Proc. Pacific Northwest Oilseed Crop Conf., Oregon State
University, Corvallis, pp. 73-100. May 15-16, 1962
- 1441 POLYUNSATURATES: DOMESTIC SUPPLIES AND PRODUCTS
J. C. Cowan
J. Amer. Oil Chem. Soc. 39(9): 4-5, 14-15. September 1962
- 1478 * FLAVOR REVERSION AND RELATED FORMS OF OXIDATIVE DETERIORATION
J. C. Cowan and C. D. Evans
In Autoxidation and Antioxidants, ed. W. O. Lundberg,
vol. II, chap. 14, pp. 593-628. New York. 1962
- 1485 KINETICS OF LINOLENATE HYDROGENATION :
H. J. Dutton
J. Amer. Oil Chem. Soc. 40(1): 35-39. January 1963
- 1536 RECENT DEVELOPMENTS IN THE GLYCERIDE STRUCTURE OF
VEGETABLE OILS
H. J. Dutton and C. R. Scholfield
In Progress in the Chemistry of Fats and Other Lipids,
eds. R. T. Holman, W. O. Lundberg, and T. Malkin, vol. 6,
chap. 10, pp. 313-339. London. 1963
- 1706 * TECHNIQUES OF SEPARATION. D. COUNTERCURRENT DISTRIBUTION
C. R. Scholfield
In Fatty Acids. Their Chemistry, Properties, Production,
and Uses, ed. K. S. Markley, 2nd ed., part 3, chap. XX,
pp. 2283-2307. New York. 1964
- 1982 * CHEMICAL AND PHYSICAL PROPERTIES OF SOYBEAN OIL
J. C. Cowan
Proc. Regional Oil Conf., sponsored by the Soybean Council
of America, Inc., in Tehran, Iran, pp. 25-29. October 20-24,
1964

- 1983 * HYDROGENATED WINTERIZED SOYBEAN OIL
J. C. Cowan
Proc. Regional Oil Conf., sponsored by the Soybean Council
of America, Inc., in Tehran, Iran, pp. 46-49. October 20-24,
1964
- 1984 * SOYBEAN SALAD OIL AND SALAD DRESSINGS
J. C. Cowan
Proc. Regional Oil Conf., sponsored by the Soybean Council
of America, Inc., in Tehran, Iran, pp. 52-57. October 20-24,
1964
- 1985 * SOYBEAN LECITHIN. PRODUCTION AND USE OF PHOSPHATIDES
J. C. Cowan
Proc. Regional Oil Conf., sponsored by the Soybean Council
of America, Inc., in Tehran, Iran, pp. 60-62. October 20-24,
1964; Indus. Times 6(219): 5. June 23, 1967
- 1826 * SOME TECHNIQUES OF RADIOACTIVE GAS CHROMATOGRAPHY FOR
LIPID RESEARCH
H. J. Dutton
In Advances in Tracer Methodology, ed. Seymour Rothchild,
vol. 2, pp. 123-134. New York. 1965
- 1847 HYDROGENATED WINTERIZED SOYBEAN OIL. A NEW SOYBEAN OIL
FOR EXPORT
J. C. Cowan
Soybean Dig. 25(8): 16-17. May 1965
- 1876 ADVANCES IN RESEARCH ON THE FLAVOR STABILITY OF EDIBLE
SOYBEAN OIL--A REVIEW
J. C. Cowan
Food Technol. 19(9): 107-110. September 1965
- 2032 KEY FACTORS AND RECENT ADVANCES IN THE FLAVOR STABILITY
OF SOYBEAN OIL
J. C. Cowan
J. Amer. Oil Chem. Soc. 43(7): 300A, 302A, 318A-321A.
July 1966
- 2051 SOYBEAN OIL IN TODAY'S WORLD. KEY PROBLEMS IN FLAVOR
STABILITY
J. C. Cowan
Soybean Dig. 26(12): 48-53. September 1966

- 2198 * AMERIKADA SOYA YAĞI NERELERDE KULLANILIR?
[USE OF SOYBEAN OIL IN THE UNITED STATES]
J. C. Cowan [Translated into Turkish by Nuriye Celkan]
Yağ ve Protein 4(47-48): 2, 4. February-March 1967
- 2253 * RECENT STUDIES ON THE FLAVOUR STABILITY OF SOYBEAN OIL
J. C. Cowan
In Manufacture and Distribution of Foods, ed. James Muil
Leitch, Proc. First Int. Congr. Food Sci. Technol., London,
1962, vol. IV, p. 751 (summary). [1967]
- 2317 DETERMINATION OF FAT COMPOSITION
H. J. Dutton
J. Amer. Oil Chem. Soc. 45(1): 4A, 6A, 8A, 44A-45A.
January 1968
- 2418 * OXIDATION BY ATMOSPHERIC OXYGEN (AUTOXIDATION)
J. C. Cowan
In Fatty Acids. Part 5, Their Chemistry, Properties,
Products and Uses, 2nd ed., rev. and enl., ed. Klare S.
Markley, pp. 3685-3713. New York. 1968
- 2458 HYDROGENATION OF FATS
H. J. Dutton
In The Chemistry of Fats and Other Lipids, ed. Ralph T.
Holman, vol. 9, part 3, pp. 351-375. Oxford and New York.
1968

Soybean Protein and Food Products

- 1404 * RESEARCH IMPLICATIONS AND PROBLEMS IN USING SOYBEAN
PRODUCTS IN HUMAN FOODS
F. R. Senti
Soybean News 13(2): 5-6. January 1962
(Pub. National Soybean Crop Improvement Council, Urbana, Ill.)
- 1465 MISO FERMENTATION
K. Shibasaki and C. W. Hesseltine
Econ. Bot. 16(3): 180-195. July-September 1962
- 1466 * SOYBEAN PRODUCTS FOR PROTEIN IN HUMAN FOODS, PROCEEDINGS
OF CONFERENCE ON
U.S. Department of Agriculture, United Nations Children's
Fund, and Soybean Council of America, sponsors. Held at
Peoria, Ill., September 13-15, 1961.
U.S. Agr. Res. Serv., ARS 71-22, 242 pp. June 1962

- 1488 * SOYBEAN PROTEINS--EXTRACTIONS, ISOLATION, AND PROPERTIES
Allan K. Smith
Proc. Symp. "What's New in Products from the Soybean,"
sponsored by Midwest Section, Amer. Assoc. Cereal Chem.,
Chicago, Ill., April 3, 1961, pp. 4-17, plus 6 figures
[1962]
- 1481 SOYBEANS--THEIR FUTURE AS A FOOD AND FEED CROP
F. R. Senti
Soybean Dig. 23(3): 16-20. January 1963
- 1535 FOREIGN USES OF SOYBEAN PROTEIN FOODS
Allan K. Smith
Cereal Sci. Today 8(6): 196, 198, 200, 210. July 1963
- 1594 * ISOLATION AND CHARACTERIZATION OF SOYBEAN TRYPSIN INHIBITORS
J. J. Rackis
Proc. Seed Protein Conf., sponsored by South. Util. Res.
Develop. Div., New Orleans, La., pp. 98-108. January 21-23,
1963
- 1595 * RECENT ADVANCES IN THE CHEMISTRY OF SOYBEAN PROTEINS
W. J. Wolf
Proc. Seed Protein Conf., sponsored by South. Util. Res.
Develop. Div., New Orleans, La., pp. 43-55. January 21-23,
1963
- 1702 THE MT. FUJI MEETING. AN INTERNATIONAL SYMPOSIUM ON
OILSEED PROTEIN FOODS
A. K. Smith
Soybean Dig. 24(10): 18-20. August 1964
- 1726 SIMPLIFIES FULL-FAT SOY FLOUR PROCESS
Gus C. Mustakas and Dean H. Mayberry
Food Eng. 36(10): 52-53. October 1964
- 1888 FULL-FAT SOY FLOUR. . .AND THE WORLD FOOD DEFICIT
R. J. Dimler
Soybean Dig. 25(12): 32-34, 36-37. September 1965
- 1893 * PROTEINE DI SOIA. ISOLAMENTO E PROPRIETA
[SOYBEAN PROTEINS. ISOLATION AND PROPERTIES]
J. J. Rackis and A. K. Smith
Minerva Dietol. 5(1): 17-24. January-March 1965
- 2007 SOY FLOUR IN FIVE EASY STEPS
[D. H. Mayberry]
Soybean Dig. 26(8): 34, 36. May 1966

- 2171 FULL-FAT SOY FLOUR
E. L. Griffin
Proc. Conf. Adv. Food Processing, held at New Orleans, La.,
March 22-24, 1965
South. Util. Res. Develop. Div.
U.S. Agr. Res. Serv., ARS 72-55, pp. 44-52. March 1967
- 2201 SOYBEAN PROTEIN FOODS, PROCEEDINGS OF INTERNATIONAL
CONFERENCE ON
U.S. Department of Agriculture, United Nations, and Soybean
Council of America, sponsors. Held at Peoria, Ill.,
October 17-19, 1966
U.S. Agr. Res. Serv., ARS 71-35, 285 pp. May 1967
- 2227 TRADITIONAL FERMENTED FOODS
C. W. Hesseltine and Hwa L. Wang
Biotechnol. Bioeng. 9(3): 275-288. July 1967
- 2235 SOYBEANS AND CORN JOIN FORCES IN FOOD!
R. J. Dimler
Soybean Dig. 27(12): 50-53. September 1967
- 2398 PROGRESS--IN FOOD USE OF SOYBEANS
R. J. Dimler
Oil Mill Gazetteer 73(3): 8-14. September 1968
- 2434 SELF-HELP SOYBEAN MILL--NEW WEAPON AGAINST HUNGER
Edward L. Griffin, Jr., and Dean H. Mayberry
U.S. Dept. Agr. Yearbook 1968, pp. 256-258. 1968
- 2475 ORIENTAL FERMENTED FOODS MADE FROM SOYBEANS
C. W. Hesseltine and Hwa L. Wang
In Proc. Ninth Dry Bean Res. Conf., Fort Collins, Colo.,
August 13-15, 1968 (West. Util. Res. Develop. Div.)
U.S. Agr. Res. Serv., ARS 74-50, pp. 45-52. February 1969
- 2549 OILSEED PROTEIN SOURCES AND POTENTIALS: SOYBEANS
R. J. Dimler
Chem. Eng. Progr., Symp. Ser. 65(93): 22-29. 1969
- 2565 A BIBLIOGRAPHY ON THE SOLVENT EXTRACTION OF SOYBEANS AND
SOYBEAN PRODUCTS 1944-1968
A. C. Eldridge
J. Amer. Oil Chem. Soc. 46(9): 458A, 460A, 462A, 464A,
496A, 498A, 500A, 502A. September 1969

- 2582 OILSEED PROTEINS
R. J. Dimler
Chem. Eng. Progr. 65(9): 20-26. September 1969
- 2586 * THE WORK AT NORTHERN LABORATORY
G. C. Mustakas
Soybean Dig. 29(12): 36. September 1969
- 2587 CHEMICAL AND PHYSICAL PROPERTIES OF SOYBEAN PROTEINS
W. J. Wolf
Bakers Dig. 43(5): 30-31, 34-37. October 1969

Industrial Oils and Products

- 1378 AFTER DRY, WHAT? A GENERAL SURVEY
John C. Cowan
Off. Dig. Fed. Soc. Paint Technol. 34(449): 561-574.
June 1962
- 1471 ALDEHYDIC MATERIALS BY THE OZONIZATION OF VEGETABLE OILS
E. H. Pryde and J. C. Cowan
J. Amer. Oil Chem. Soc. 39(11): 496-500. November 1962
- 1475 LIQUID C-18 SATURATED MONOCARBOXYLIC ACIDS--THEIR
PREPARATION, CHARACTERISTICS, AND POTENTIAL USES
J. P. Friedrich and R. E. Beal
J. Amer. Oil Chem. Soc. 39(12): 528-533. December 1962
- 1476 DIMER ACIDS
J. C. Cowan
J. Amer. Oil Chem. Soc. 39(12): 534-545. December 1962
- 1491 RESEARCH ON EMULSION PAINTS FROM VEGETABLE OILS
J. C. Cowan and L. E. Gast
Amer. Paint J. 47(33): 85, 88-89, 92, 94, 96, 98, 100,
102, 104. February 1963
- 1518 VINYL MONOMERS DERIVED FROM FATS AND OILS
H. M. Teeter
J. Amer. Oil Chem. Soc. 40(4): 143-156. April 1963
- 1584 * RESEARCH FOR NEW USES OF LINSEED OIL
F. R. Senti
Proc. Flax Growers Day at 33rd Annual Flax Inst. U.S.,
Fargo, N. Dak., pp. 8-13. November 15, 1963

- 1606 * POLY(AMIDE-ACETALS)
E. H. Pryde and J. C. Cowan
In High Polymers, ed. Norman G. Gaylord, vol. XIII, chap. VII,
pp. 446-453. New York. 1963
- 1607 * POLY(ESTER-ACETALS)
E. H. Pryde and J. C. Cowan
In High Polymers, ed. Norman G. Gaylord, vol. XIII, chap. VII,
pp. 442-446. New York. 1963
- 1629 LINSEED OIL. COMPOSITIONS FOR CURING CONCRETE
[W. L. Kubie]
U.S. Agr. Res. Serv., CA-71-26, 4 pp. February 1964
[Processed]
- 110-C POLYMERIZATION AND COPOLYMERIZATION OF UNSATURATED FATTY ACIDS
AND THEIR ESTERS--A SURVEY OF THE LITERATURE
F. R. Mayo and Harriette Huff
Stanford Research Institute, Menlo Park, Calif.¹
U.S. Agr. Res. Serv., ARS 71-30, 48 pp. June 1963
[Processed]
- 1798 * PROGRESS IN RESEARCH ON LINSEED OIL
E. H. Pryde and J. C. Cowan
Proc. 34th Annual Flax Inst. U.S., Minneapolis, Minn.,
pp. 29-32. November 12-13, 1964
- 1952 INDUSTRIALLY IMPORTANT REACTIONS [OF FATTY ACIDS]
E. H. Pryde
In Kirk-Othmer Encyclopedia of Chemical Technology, 2nd ed.,
vol. 8, pp. 818-824. 1965
- 1967 ECONOMIC ASPECTS [OF FATTY ACIDS]
E. H. Pryde
In Kirk-Othmer Encyclopedia of Chemical Technology, 2nd ed.,
vol. 8, pp. 839-845. 1965
- 155-C POLYMERIZATION STUDIES WITH VINYL ESTERS OF ACIDS DERIVED
FROM AGRICULTURAL PRODUCTS
C. S. Marvel and J. H. Griffith
University of Arizona, Tucson¹
J. Agr. Food Chem. 13(5): 402-405. September-October 1965
- 2197 * HYDROLYSIS POLYMERIZATION
W. R. Miller
In The Encyclopedia of Chemistry, ed. George L. Clark,
2nd ed., p. 531. New York. 1966

¹Report of research work done by an outside agency under contract with the U.S. Department of Agriculture and supervised by the Northern Utilization Research and Development Division.

- 2295 * RESEARCH AND PROGRESS IN THE USE OF LINSEED OIL
J. C. Cowan
Proc. 36th Annual Flax Inst. U.S., Minneapolis, Minn.,
pp. 46-50. November 10-11, 1966
- 2326 * NEW LINSEED OIL EMULSION COATINGS SHOW PROMISE
J. C. Cowan and L. H. Princen
Proc. 37th Annual Flax Inst. U.S., Fargo, N. Dak., pp. 44-46.
November 16-17, 1967
- 2435 A "CURE" FOR CONCRETE SOOTHES MOTORIST TOO
J. C. Cowan
U.S. Dept. Agr. Yearbook 1968, pp. 161-165. 1968
- 2478 REACTIONS OF AZELALDEHYDIC ESTERS
E. H. Pryde and J. C. Cowan
J. Amer. Oil Chem. Soc. 46(4): 213-218. April 1969
- 2613 * LINSEED OIL COATINGS CONTINUE TO SHOW PROMISE
J. C. Cowan
Proc. 38th Annual Flax Inst. U.S., Minneapolis, Minn.,
November 21-22, 1968, pp. 36-38. 1969

Potential New Crops

- 1396 THE SEARCH FOR NEW CROPS
Ivan A. Wolff and Quentin Jones²
U.S. Dept. Agr. Yearbook 1962, pp. 473-476. 1962
- 1434 CRAMBE. A POTENTIAL NEW CROP FOR INDUSTRIAL AND FEED USES
Crops Res. Div. and North. Util. Res. Develop. Div.
U.S. Agr. Res. Serv., ARS 34-42, 9 pp. September 1962
- 1684 NEW ENZYMATIC PROCESS CONVERTS MUSTARD SEED TO VALUABLE
MEAL AND OIL COMPONENTS
G. C. Mustakas
Chemurg. Dig. 22(1): 5-6. January-February 1964
- 1812 EFFECT OF UNUSUAL ACIDS ON SELECTED SEED OIL ANALYSES
I. A. Wolff and T. K. Miwa
J. Amer. Oil Chem. Soc. 42(3): 208-215. March 1965

²Crops Research Division, Agricultural Research Service, U.S.
Department of Agriculture, Beltsville, Md.

- 1938 THE MANY USES OF CRAMBE PRODUCTS
Ivan A. Wolff
Crops and Soils 18(4): 10-12. January 1966
- 1989 NEW CROPS--VISIONARY DREAM OR PRACTICAL REALITY?
Ivan A. Wolff
Econ. Bot. 20(1): 2-5. January-March 1966
- 2097 SEED LIPIDS
Ivan A. Wolff
Science 154(3753): 1140-1149. December 2, 1966
- 2107 CRAMBE. A PROGRESS REPORT
George A. White² and Ivan A. Wolff
Crops and Soils 19(4): 16. January 1967
- 2289 * CRAMBE VEGETABLE OIL
Ivan A. Wolff
In Encyclopedia of Basic Materials for Plastics,
eds. Herbert R. Simonds and James M. Church, pp. 129-130.
New York. 1967
- 2390 FROM WILD PLANTS TO NEW CROPS IN USA
George A. White² and Ivan A. Wolff
World Crops 20(3): 70-76. June 1968
- 2528 * GOITROGENS
Cecil H. VanEtten
In Toxic Constituents of Plant Foodstuffs, ed. I. E. Liener,
chap. 4, pp. 103-142. New York. 1969

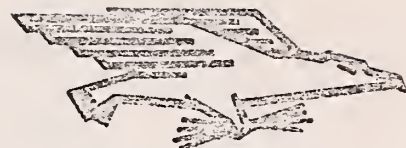
General Surveys on Utilization Research

- 1521 * RESEARCH ON LINSEED OIL AT NORTHERN REGIONAL RESEARCH
LABORATORY
J. C. Cowan
Proc. 32nd Annual Flax Inst. U.S., Minneapolis, Minn.,
pp. 26-28. November 1962
- 1495 CURRENT STATUS OF SOYBEAN UTILIZATION RESEARCH UNDER
P.L. 480
Frederic R. Senti
Soybean Dig. 23(7): 28, 30-34. May 1963
- 1575 SOYBEAN UTILIZATION RESEARCH AT THE NORTHERN REGIONAL
RESEARCH LABORATORY
F. R. Senti
Soybean Dig. 23(11): 26-30. September 1963

- 1714 1964 SOYBEAN RESEARCH AT THE NORTHERN REGIONAL RESEARCH
LABORATORY
L. L. McKinney
Soybean Dig. 24(11): 34-39. September 1964
- 1797 * OILSEED RESEARCH AT THE NORTHERN REGIONAL RESEARCH
LABORATORY ON DEHYDROGENATION OF FATTY ACIDS
E. H. Pryde
Proc. 34th Annual Flax Inst. U.S., Minneapolis, Minn.,
pp. 21-24. November 12-13, 1964
- 2111 ADVANCES IN RESEARCH ON THE USE OF SOYBEAN OIL
J. C. Cowan
*In Proc. Cottonseed Processing Clinic, held at New Orleans,
La., February 8-9, 1965*
U.S. Agr. Res. Serv., ARS 72-49, pp. 58-65. October 1966
- 2325 * UTILIZATION RESEARCH ON GRAIN SORGHUM IN THE USDA
Joseph S. Wall
*In Proc. 5th Grain Sorghum Research and Util. Conf., sponsored
by the Grain Sorghum Producers Assn. at Amarillo, Texas,
pp. 21-25. March 2-3, 1967*
- 2432 RESEARCH IN SOYBEAN UTILIZATION
V. L. Davison
Soybean Dig. 29(2): 8-9. December 1968
- 2477 PROCESSING OF SOYBEANS
R. J. Dimler
*In Proc. 17th Cottonseed Processing Clinic, New Orleans, La.,
February 12-13, 1968*
U.S. Agr. Res. Serv., ARS 72-69, pp. 48-60. January 1969
- 2581 FOOD USES OF SOYBEANS. RESEARCH AT THE NORTHERN LABORATORY
Howard M. Teeter and Wilbur C. Schaefer
Soybean Dig. 30(1): 16-18. November 1969
- 2643 SOYBEANS
J. C. Cowan
*In Kirk-Othmer Encyclopedia of Chemical Technology, 2nd ed.,
vol. 18, pp. 599-614. 1969*

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